

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re U.S. Patent Application of

Lola M. REID *et al.*

Patent Application No.: 10/645,610

Filed: August 22, 2003

Title: PROLIFERATION OF HEPATOCYTE PRECURSORS

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

INFORMATION DISCLOSURE STATEMENT UNDER
37 C.F.R. § 1.56, § 1.97(b)(3) AND § 1.98

In compliance with the duty of disclosure under 37 C.F.R. § 1.56 and in accordance with the practice under 37 C.F.R. § 1.97 (b)(3) and § 1.98, Applicants bring to the attention of the Examiner the documents listed on the attached Form PTO/SB/08A. This Information Disclosure Statement is being filed before the mailing date of a first Office Action on the merits for the above-referenced application.

Copies of the documents were previously submitted in Patent Application No. 09/534,487 filed March 24, 2000, from which this application claims priority under 35 U.S.C. § 120. Accordingly, no copies are being provided herewith.

This submission does not represent that a search has been made or that no better art exists and does not constitute an admission that each, any, or all of the listed documents are material or constitute "prior art." If the Examiner applies any of the documents as prior art against any claim in the present application and Applicants determine that the cited documents do not constitute "prior art" under United States law, Applicants reserve the right to present to the office the relevant facts and law regarding the appropriate status of such documents. Further, Applicants reserve the right to take appropriate action to establish the patentability of the disclosed invention over the listed documents, should one or more of the documents be applied as prior art against the claims of the present application.

CONCLUSION

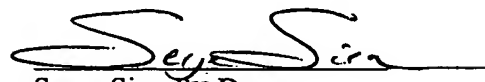
It is respectfully requested that the attached information be considered by the Examiner and that a copy of the attached Form PTO/SB/08A be returned indicating that such information has been considered.

Applicants' undersigned attorney may be reached in our Washington, D.C. office by telephone at (202) 625-3500. All correspondence should continue to be directed to our address given below.

AUTHORIZATION

Applicants believe there is no fee due in connection with this filing as this Information Disclosure Statement is being filed prior to any Office Action on the merits in this matter. However, to the extent required, the Commissioner is hereby authorized to charge any fees due in connection with this filing to Deposit Account 50-1710 or credit any overpayment to same.

Respectfully submitted,



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Dated: November 12, 2003

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C mplete if Known

Application Number	10/645,610
Filing Date	August 22, 2003
First Named Inventor	Lola M. REID et al.
Art Unit	unassigned
Examiner Name	unassigned
Attorney Docket Number	320727-00123

Sheet 1 of 7

U. S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)			
9W	1	US- 5,087,570	02/11/92	Weissman, et al.	
	2	US- 5,061,620	10/29/91	Tsukamoto, et al.	
	3	US- 5,030,105	07/09/91	Kuri-Harcuch, et al.	
	4	US- 5,576,207	11/19/96	Reid, et al.	
	5	US- 5,858,721	01/12/99	Naughton et al.	
	6	US- 5,785,964	07/28/98	Naughton et al.	
	7	US- 5,624,840	04/29/97	Naughton et al.	
	8	US- 5,510,254	04/23/96	Naughton et al.	
	9	US- 5,160,490	11/03/92	Naughton et al.	
	10	US- 5,032,508	07/16/91	Naughton e al.	
71	71	US- 5,789,246	08/04/98	Reid et al.	
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FOREIGN PATENT DOCUMENTS

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		Country Code ³ Number ⁴ Kind Code ⁵ (if known)				
9W	11	WO 94/08598	04/28/94	ADVANCED TISSUE SCIENCES INC		

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Joe W. Walker

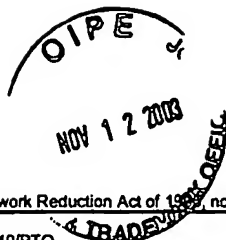
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NON PATENT LITERATURE DOCUMENTS

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gv	12	Agelli et al. "Survival in Culture of Putative Liver Stem Cells is Independent from Known Epithelial Cell Growth Factors", Clinicial Research, Vol 39, No. 2, pp. 167A 1991.	
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	14	ATERMAN, "The Stem Cells of a Liver-a Selective Review", J Cancer Research Clinical Oncol", Vol. 118, pp. 87-115 (1992)	
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	19	BRILL et al. Extracellular Matrix Regulation of Growth and Gene Expression in Liver Cells Lineages and Hepatomas", The Liver: Biology and Pathobiology", pp. 869-891, 1994	
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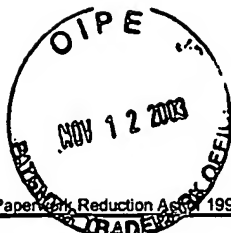
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gw	22	Carm et al., "Abstracts for the XIII International Meeting of the Society for Analytical Cytology", "Journal of Society for Analytical Cytology Cytometry", Supp. 2, pp. 12 (1988)	
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	30	Gebhardt, "Metabolic Zonation of the Liver: Regulation and Implications for Liver Function", "Pharmac. Ther.", Vol. 23, pp. 275-354 (1990)	
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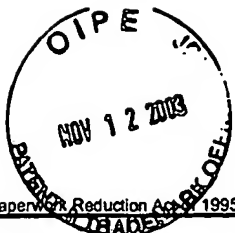
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J.W.	32	GRISHAM, "Migration of Hepatocytes Along Hepatic Plates and Stem Cell-Fred Hepatocyte Lineages", "American J. of Pathology", Vol. 144 (No.5), pp. 849-854 (1994)	
	33	GRISHAM et al., "Isolation, Culture and Transplantation of Rat Hepatocytic Precursor (Stem-Like) Cell, "Culture of Hepatocytic Stem-Like Cells", Vol. 204 (No. 3), pp. 270-279 (1993)	
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	41	LEDLEY et al., "Retroviral Gene Transfer Into Primary Hepatocytes: Implication for Genetic Therapy of Liver-Specific Functions", Proc. Natl. Acad. Sci., Vol. 84, pp. 5335-5339 (1987)	

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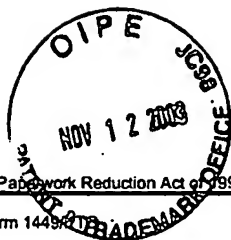
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96	42	LEH, et al. "Cloning and Expression of a Novel Type (III) of Human y-Glutamyltransferase tuncated mRNA," FEBS Letters, Vol. 394, pp 258-262. (1996)	
	43	Li et al. " Culturing of Primary Hepatocytes as Entrapped Aggregates in a Packed Bed Bioreactor: A Potential Bioartificial Liver", In Vitro Cell. Dev. Bio., Vol. 29A, pp. 249-254 (1993)	
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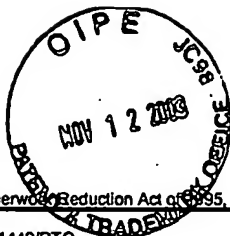
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ue	52	SANDERS et al., "Determination of Guanine-Plus-Cytosine Content of Bacterial DNA by Dual-Laser Flow Cytometry", Journal of General Microbiology", Vol. 136 (Part 2), pp. 219-376 (1990)	
	53	SANDERS et al., "Detection and Analysis by Dual-Laser Flow Cytometry of Bacteriophage T4 DNA Inside Escherichia Coli", Journal of the Inter. society for Analytical cytology Cytometry", Vol. 12, pp. 167-171 (1991)	
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	57	SIGAL et al., "Characterization and Enrichment of Fetal Rat Hepatoblast by Immunoabsorption ("Panning") and Fluorescence-Activated Cell Sorting", Hepatology, Vol. 19 (No. 4) pp. 999-1006 (1994)	
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SignatureDate
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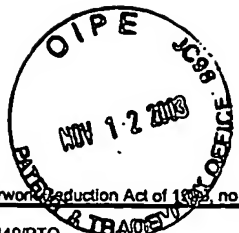
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STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Complete if Known

Application Number	10/645,610
Filing Date	August 22, 2003
First Named Inventor	Lola M. REID et al.
Art Unit	Unassigned
Examiner Name	Unassigned
Attorney Docket Number	320727-00123

Sheet 7 of 7

NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
me	62	STEINKAMP et al., "A New Multiparameter Separator for Microscopic Particles and Biological Cells", Review of Scientific Instruments, Vol. 44 (No. 9), pp. 1301-1310 (1973)	
	63	TANIGUCHI et al., "Conditions for the Successful Engraftment of Hepatocyte Progenitors Injected into the Spleen", Transplantation Proceedings, Vol. 28 (No. 3), pp. 1855-1856,	
	64	TASI et al., "Isolation of a Human Stromal Cell Strain Secreting Hemopoietic Growth Factors", Journal of Cellular Physiology, Vol. 127, pp. 137-145 (1986)	
	65	TASI et al., "Isolation of a Human Stromal Cell Strain Secreting Hemopoietic Growth Factors", Biology Abst., Ref. No. 22434, Vol. 82 (No. 3)	
	66	TSUCHIDA, et al., "The Role of Subfractionation of Alpha-Fetoprotein in the Treatment of Pediatric Surgical Patients", J. of Pediatric Surgery, Vol. 32, No. 3, pp. 514-517 (1997)	
	67	WILSON et al., "Temporary Amelioration of Hyperlipidemia in Low Density Lipoprotein Receptor-Deficient Rabbits Transplanted with Genetically Modified Hepatocytes", Proc. Natl. Acad. Sci. : Vol. 87, pp. 8437-8440 (1990)	
	68	WILSON et al., "Retrovirus-Mediated Transduction of Adult Hepatocytes", Proc. Natl. Acad. Sci. , Vol. 85, pp. 3014-3018, (1988)	
	69	Wu et al., "Targeting Genes: Delivery and Persistent Expression of a Foreign Gene Driven by Mammalian Regulatory Elements in Vivo", J. Biol. Chem., Vol. 264, (No. 29) pp. 16985-16987 (1989)	
	70	Yamamasu, et al., "Role of Glutathione Metabolism and apoptosis in the Regression of Live Hemopoiesis", Free Radical Biology & Medicine, Vol. 23 (No. 1) pp. 100-109 (1997)	

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